

Figure 1

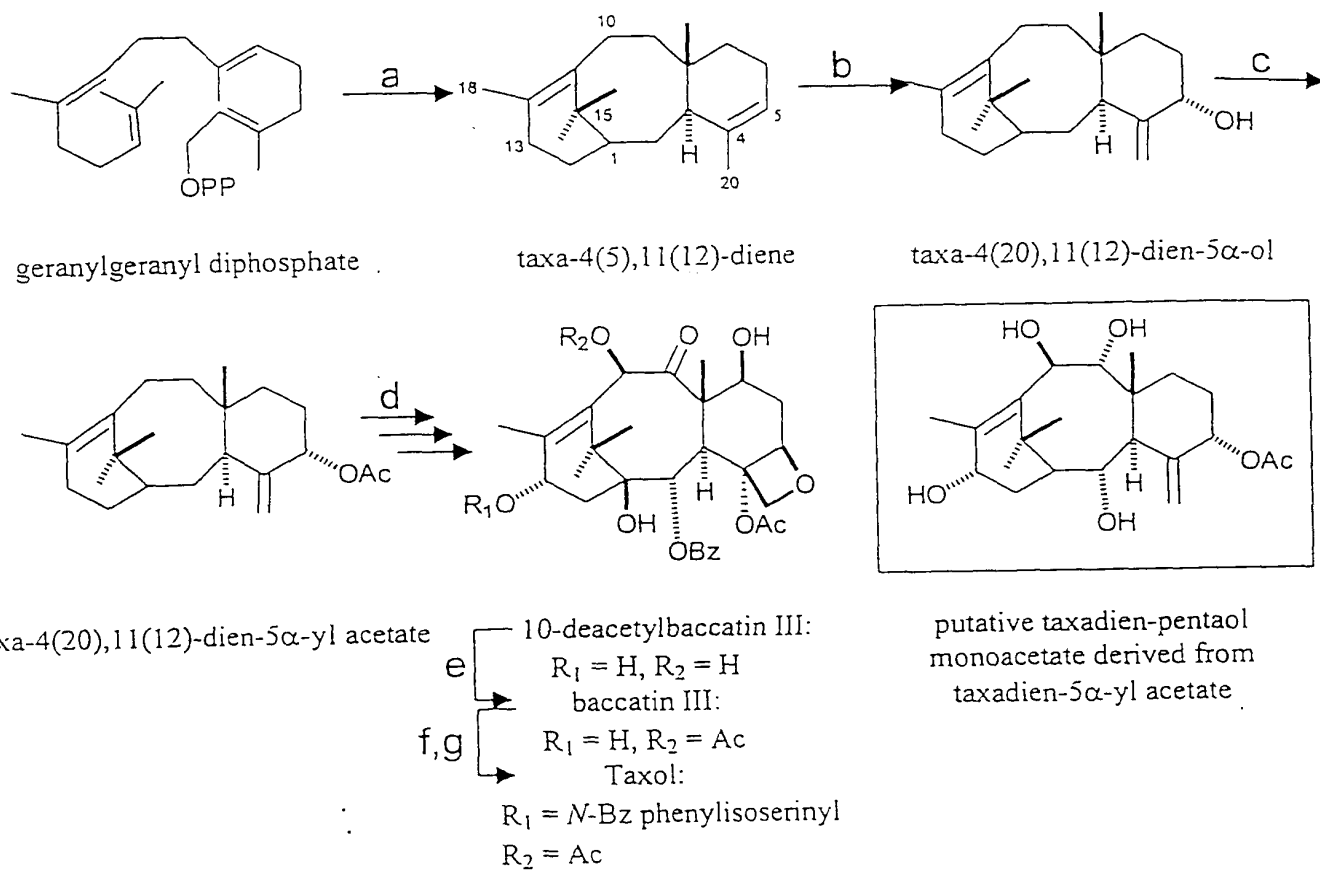


Figure 2

Tryptic Peptide Fragment	Peptide Sequence
SEQ ID NO: 29	TTLQLSSIDNLPGVR
SEQ ID NO: 30	ILVYYPPFAGR
SEQ ID NO: 31	FTCGGFVVGVSF
SEQ ID NO: 32	KGLAEIARGEVK
SEQ ID NO: 33	NLPNDTNPSSGYYGN

Figure 3

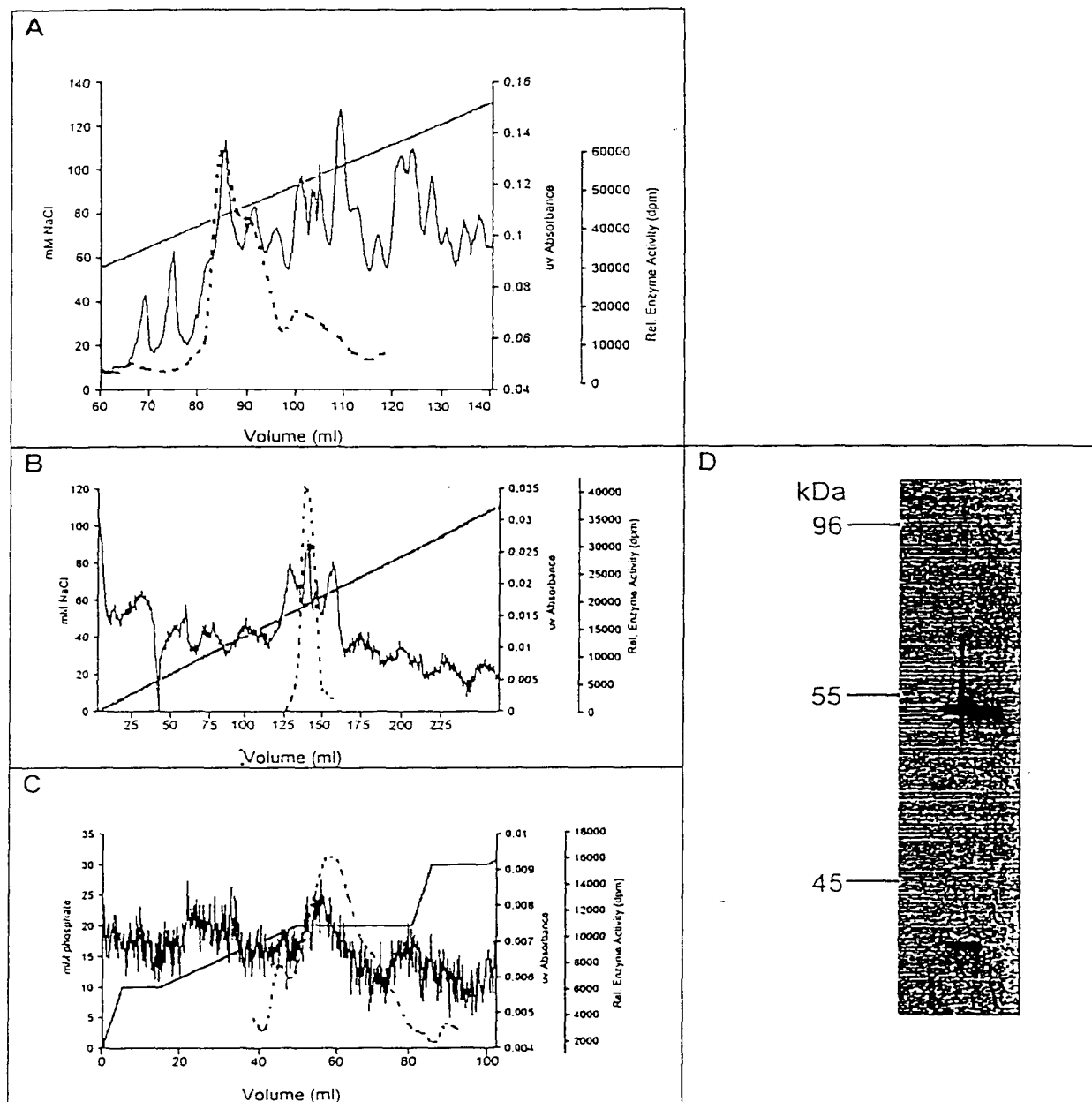


Figure 4.

FROM PEPTIDE FRAGMENT SEQUENCE 2
 NH2- I L V Y Y P P -COOH
 5' ATI CTI GTI TAT TAT CCI CC 3'
 T C C C C
 A A

AT-FOR1
 (SEQ ID NO: 34)

NH2- Y Y P P F A G -COOH
 5' TAT TAT CCI CCI TTT GCI GG 3'
 C C C C C C
 A A A

AT-FOR2
 (SEQ ID NO: 35)

FROM SEQUENCE HOMOLOGY CONSIDERATIONS
 NH2- F Y P F A G R -COOH
 5' TTC TAT CCI TTC GCI GGI AG 3'
 T C T C C
 A A

AT-FOR3
 (SEQ ID NO: 36)

NH2- Y Y P L A G R -COOH
 5' TAC TAT CCI TTI GCI GGI AG 3'
 T C C C C C
 A A

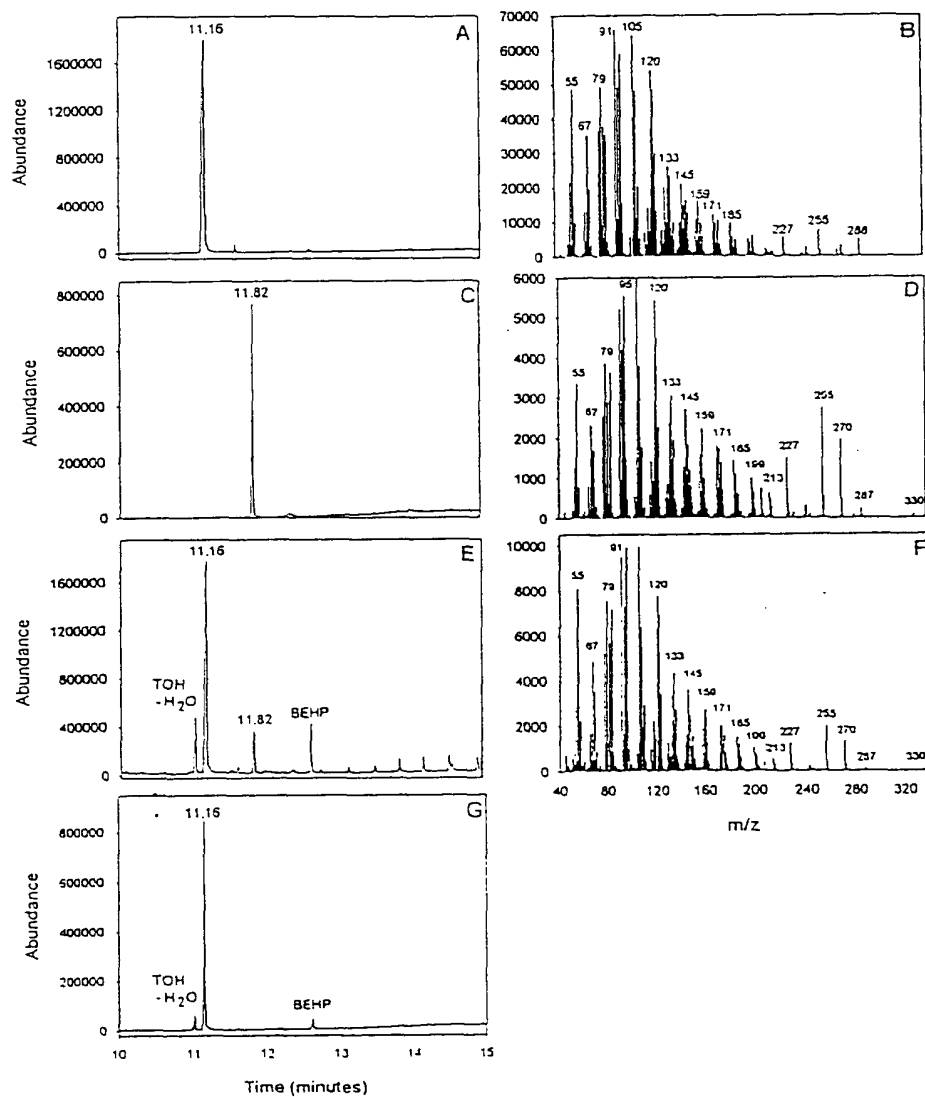
AT-FOR4
 (SEQ ID NO: 37)

NH2- D F G W G K P -COOH
 3' CTA AAA CCI ACC CCI TTT GG 5'
 G G C C C
 A A

AT-REV1
 (SEQ ID NO: 38)

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Figure 5



	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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[illegible]

Figure 6
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TAXI KITLQUBSIB NLFGVRSIF NALLIYNASP SPINISADP. AKPI REAALAKIIVY VPFAAGRL ETENG 90
TAX2 KUIFLNLPID NKT. NGLT NLSVYNASQ RVS. VSADP. AKTI REAALBKVLVY VPFAAGRL NTEHG 84
aab61522
aab61523 KRII LNLBLLD ILSSPHYTGA LFLYAADPQN LGLFSTEET. SLKZ KKS LBLKLPPI VPFAAGRL 86
aab95293 DLKLSVBDLP NLSCHYIQKG CLFTCPH. LPLPAL. ISND KHS LBLT LTH VPFAAGRL 86
aab97723 NLSLYLBNLD DILGARVETP SVFYFSTNH RESFY. LKND QDA LBLVLP VPFAAGRL 100
aac17079 H. LPLBNLD L.L.LPLBNLVH GFCYKRP. LNFITVA. YETD KTA LAETLV VPFAAGRL 208
aac18062 LOKLBNBLD QIQIFVGL IFHY. T.LSDHSDIT. LSKL ESG LBLT LTL VPFAAGRL 79
aac27152 RKSFLBNVBD QILN. FDV QVHFHFRPNK EFFPEHV. SEMD KKA LBLKLPPI VPFAAGRL 87
aac99311 LSRYNLBNVBD QHLYQTCVSV GFYFHPDGI EISTIRE. QD QNS LBLKLPPI VPFAAGRL 87
aad12025 GRIP LAEVD QV. GTITNI PLYFYDKPS ESFGNV. VETD KTS LBLVLP VPFAAGRL 82
caa0531 . ET LSLBLD NDFHFNHVA TIVFKANGK NLD. DP. VSLD KKA LBLVLP VPFAAGRL 92
caa0536 RETKFLBDID DQGLR. QIPVIFYHUK DSHGKRP. VKVI KKA LAETLV VPFAAGRL 92
caa06427 YEFKOLBDVD DQSLR. QIPVIFYHUK DSHGKRP. VKVI KKA LAETLV VPFAAGRL 92
caa06427 KSLWLBNDID NDLRTYSHIT GAVLIYKQPD NN. EDHINPS GSHYFDANI VPFAAGRL 92
cab10310 LQTLQ LBNVBD NDLRTYSHIT GAVLIYKQPD NN. EDHINPS GSHYFDANI VPFAAGRL 92
cab10319 R. LQTLQ LBNVBD NDLRTYSHIT GAVLIYKQPD NN. EDHINPS GSHYFDANI VPFAAGRL 92
cab10761 HDKKKLITLS NDLRQCPILN YSVFYKHT TROFDSV. FSHD KLG LBLT LSV VPFAAGRL 92

TAX1 DLEVECTGE. GANFLBNHAD NEVSVLGD. F DSHNPSFO. Q L.L.FSLPLDTH F. KOLS LBLVQVRET CO. 05 156
TAX2 DLEVECTGE. GAVFVBNHAD NDL SVLQD. F NEYDPSFO. Q L.VFLNREOVH I. EDLH LBLVQVRET CO. 05 150
aab61522
aab61523 . FVEGNBGG AVFIFARVDH. L.L. SEFLK. PVPE. SLBL. IF. VEAKS NE. AVTMD VBLI QVRET CO. 05 149
aab95293 HVEFLTGNBAG ADFVFAQAKS INVSQVAGI DVPD. VVKFF FTYDR. AVS YF. GHNND IBLAVQVRET CO. 05 153
aab97723 KLEVEFGEBO GVLHVSBNHS NDLADLGLT VPHNHLPLI FRNPGELAYK I. LEND LBLAVQVRET CO. 05 169
aac17079 EPEILGNHRC VDFEAGAD. VFLRELHLY. DPDE. SIACL VPIKKG. VIAI QVRET CO. 05 266
aac18062 DCVIEGNBGG IGYVETAFD. VFLRELHLY. DPDE. SIACL VPIKKG. VIAI QVRET CO. 05 266
aac27152 RLDVDCNCA. GAGFVTAASD YTDLELGD. L VYPHAPFAD VLSQLO. SLF KD. DQD LBLVQVRET CO. 05 163
aac99311 DY. IHCNBDGG IEFVEVRI. R CBNHDLKY. ELRS. YARDL VLPKRVTVGS ED. TTA. IVOLSHED CO. 05 150
aad12025 REFELNCAE. GVEFIBAESE GKLSDFKD. F. S. PTEFLH. N. PQVNYKHP IE. TID LBLVQVRET CO. 05 147
caa0531 KLOLVYLG. GVPFEVATST L.D. SSILH. YIENLDD VALHLVPEIF IDYESHVCYH PBLAVQVRET CO. 05 160
caa0536 KLVNDCGGE. GIMFVADAD VTLDEFGDEL QPFPCL. E L.LYDVPDSAG V. LHCQ LBLI QVRET CO. 05 159
caa06427 KLVNDCGGE. GIMFVADAD VTLDEFGDEL QPFPCL. E L.LYDVPDSAG V. LHCQ LBLI QVRET CO. 05 153
cab06427 RYEIDONAE. GALFVEAEES NVELEDFGD. F. R. PHDELHRY HVPFCOYSKG IS. SFG LBLVQVRET CO. 05 156
cab10310 . TVDCTDGG AIFVDARVNH CPMTEFLKC. PDFO. ALQOL. LPLDVQVNPY VA. AATMD LBLVQVRET CO. 05 152
cab10319 . SISGNBGG AVFTEARIDL. L.D. POFLRH. LHTD. SLSCF LPTLAAGE. PAAMD LBLVQVRET CO. 05 143
cab10761 KLINRGNBGG AVHVEAVATG VKLSLGLDT QYHFEYHLYV YKFSLDGDFS V. NID LBLVQVRET CO. 05 156

Figure 6
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[illegible]

TAX1	VV0VSVFHHGV	CD00RGAA00L	KGLHLEMAH	G	EVKLS	LEPIH	HRELVKLD	..	DP	KYLOQ	FHF	..	201
TAX2	VD0CTRFHHSV	S00KGI00L	KHCHGEMAL	G	EFKPS	.....	LEPIH	HREHVKPE	..	DJ	HYLOQ	DHF	..	201
anb61522	AL0JIGLSHKK	CDALSGIL	EV	NSHAFAL	Q	TDE	.....	ITPSF	DLAHVKPCD	..	IEH	.....	..	95
anb61523	VITICVSHHKI	TDAISLHNSI	RGHAAESSG	..	..	..	..	CITLIPSF	TASVEFPKPL	DEL	.....	..	..	202
anb95293	FIDQSVHHAHV	T00TSLHNSI	HTAEVSSGA	KHVT	.....	..	OPDFHRESVL	ISPAVLKVQO	GGPKVTFDEL	APLRE	..	..	..	223
anb97723	SL0IRLGHCI	CD00FGAN00L	GSHANT0KIG	KLIAD	.....	..	FEVPM	DRETFKPN	..	HF	PHVKY	FHH	..	227
anb10709	VV00CTCFDHRV	AD0VYSHNHSL	LSHAEISBS	VPI	.....	..	SGV	PSF	HSLJLHPIRN	LVMHPSIDQI	YHVP	..	..	320
anb18002	VV10A0CFHHT	DHETFHSTH	NSHAKAC	HVG	IKR	.....	..	VAHPT	GLAVLHPSAK	VLM	.....	..	..	190
anb27152	ALH0ISTHHT	F00LSEFKTL	ELHASSILH	..	EKPLS	.....	..	TPQCN	DRTLLKADPF	PS	.....	..	..	219
anb29031	AVAFGISHHKV	AD0GTIASFH	K0HAAASCYL	SSS	.....	..	..	..	..	..	..	..	..	206
anb12025	SLSVHVSMAI	V00Q0ALHFI	SEHGRALH	..	GEPLR	.....	..	TVQFL	DHKLINAGCF	LFFPVSFPKF	QHX	..	..	208
anb10531	TID0TALTAV	CD00YGAQOI	HALTELH	AG	KTFPS	.....	..	..	..	..	..	..	..	220
anb46636	IFALRLHHTH	SDAFGLVQTH	TAVGEMHAR	G	GSAPS	.....	..	..	..	..	..	..	..	216
anb49442	IF00LGFHHTH	AD00FGIVQTH	KATHEMAR	G	AFAFS	.....	..	..	..	..	..	..	..	210
anb46427	SL00LGHMHV	CD00HAFETH	NSHAEIAR	..	GLRFA	.....	..	..	..	..	..	..	..	213
anb10310	AL0JIGLTHKI	AD0ASISSTI	RSMAATASGE	NDA	.....	..	..	..	..	..	..	..	..	206
anb100319	AVSVSVSHKI	CDIASLVTFV	KDHAITATK	G	NSH	.....	..	..	..	..	..	..	..	196
anb40761	SIDIGTSHSL	F00GISAYETH	HAHSHSHH	HKSHSKITNK	KEDVVIKIPVH	DRHRLLVHRD	AVRETHAAAI	CDLTYQ	..	..	..	..	..	221
TAX1	EFLRNP	..	SIV	..	EKIVQTYEII	DEFT	HYIKQ	SV	HEEC	..	..	..	..	251
TAX2	DFIHP	..	LHL	..	EKSIOASHVI	SFTM	HYIKR	CH	HEEC	..	..	..	..	245
anb61522	HATGITKE	..	..	..	..	..	..	..	..	..	..	..	..	133
anb61523	KPHMRKEEVE	FHS	CVT	..	..	..	..	..	..	..	..	..	..	244
anb55293	RIFSFSNESI	OELKAVVNHKK	..	..	..	..	..	..	..	..	..	..	..	293
anb97723	EYLPPIEFSRH	LTHSLWD	..	..	TKPLOKCYRI	SKFQOCRVKS	IA	OGED	..	..	..	..	..	213
anb17019	SLPRPQETH	PEHLAS	..	..	..	..	..	..	..	..	..	..	..	373
anb18002	SLPPSFEQ	..	..	..	..	..	..	..	..	..	..	..	..	244
anb27152	EL	VKFODC	ETTTFEATS	ENLDFHISKL	SSEQ	OKKOKR	RA	SFT	..	..	..	..	..	265
anb29031	QFPTSK	..	..	..	..	..	..	..	..	..	..	..	..	242
anb12025	EFDQPFPLIG	ETDNVEERKK	KTIIV	VHPL	STSQLOMRS	KAHGSKH	..	..	..	..	..	..	..	257
anb20531	D	..	..	..	..	..	..	..	..	..	..	..	..	261
anb46636	EYDEVDRTKG	TIJPL	..	..	..	..	..	..	..	..	..	..	..	259
anb49442	EYDQVVDHKS	GLIFV	..	..	..	..	..	..	..	..	..	..	..	253
anb06647	QFE	PFVPS	LPHELLDGKT	NKSO	TLFJL	SRLOJHNTXO	KLDSH	..	..	..	..	..	..	260
anb100318	KLPADEQAG	KRS	SIT	..	..	..	..	..	..	..	..	..	..	240
anb100319	QFPTSDSDSH	ITSKYVL	239
anb40761	LIKOAHNTYO	EQRHRLFLPD	SGFVIMHTEL	NGDA	LESTYKX	KSLEG	276

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TAX1	LSNG	SLLR	ALHILK	NSV	SL	NDN	F	KBR	AVVK	SELDVN	HNHENVVAF	D	NSRL	367
TAX2	LSNG	SLLY	ALHILK	NSV	AL	NEH	F	KBR	ILTKP	STLDAN	HNHENVVGF	D	NSRL	361
nahb1532	ENDEFKAS	LVDQHEFR	KI	DAV	YXKLQEDH	GHL	FLHKQASGV	HGEIWSFSFT	B	LCKF	259			
nahb1523	AAIFRIQD	VVDENRARE	IF	S	LNCKEHSKS	SRIFELLEE	IG	KVYGRG	HEHDLWHSN	B	GKL	366		
nahb5293	QSVPTFAT	AAEVLSTNPK	HC	ADO	LHOBVAIHD	GRINSVADH	EAMPRCFLG	NADGASVTHG	8	SPAT	416			
nahb97723	LIND	SLSK	TRILVODARL	RV	SED	VLRBHVDYD	VKAPRK	BEFGCKLIT	O	TRAF	353			
nah17019	ISKPLSVAT	EVHRLFK	SED	SVTKEHFLML	IDHVEICRPT	PAVSRIYSVG	SDDQPAFLVS	BGRSF	500					
nah18062	ESKRITVAT	KITDITSLG	SA	CGE	IISTEAKVAD	AEUVSSHVLN	SVRETYEENG	KGEKHVFLYT	B	CRF	311			
nah27152	LFEE	PFGR	IVENHGEGR	RI	TDE	YARBAIDNGE	LYKG	FNHGEVLVS	B	NKL	360			
nah299313	VLHEKEYTKL	VINELNRLEQ	KI	KML	SNEKLTYYAQ	HEEFVKSLE	FDISHL	DDIYALSD	B	CRF	316			
nah212025	BLSH	ELFG	AASLISMAIK	NV	THE	VHIGIEFLYK	HQKDLKKFQD	LHALGSTEGP	FYGNPHLGV	B	LTL	391		
nah20531	BEES	SISN	IAHRVAKK	TAYEKGYIEE	ELKHITELRLH	DBSHFE	GVSDGLFFLT	D	HLI	366				
nah54636	BSKN	PLGY	ALTELVKMTAS	DV	TEE	YHKBVADLVH	LKGRPH	FTVARTFLVS	D	TRG	316			
nah64432	LCGN	FLGY	AVDLIRMAA	KA	THE	YIKBTVDLHV	IKGRPY	FTVCGSFHNS	D	LTRI	366			
nah10318	LSCH	PLIE	TAGKVOELAK	GL	DDD	VLRBALDITE	SKTGL	FPVYHGSPEKT	LY	PHVLVN	B	GR	316	
nah10319	GGEVKEIE	AVARDLREKLE	EL	GTV	ILDEGSSDS	SSHIGXLAN	LMLHNSRLS	YETHEPTYS	B	GR	316			
nah10319	ESEFEIIE	IVATRLRME	RV	HEH	IKTBLOGNTI	QOSLSLHAE	TVSES	TEIDRYHNS	B	CRK	363			
nah10761	BLEELTBLES	IVHKNREAK	SI	DOG	YHBYEALG	GSHDGHLPF	LKELTLIS	D	YTKH	391				

Figure 6
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TAX1 G. FDEVD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	430			
TAX2 G. FYEAD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	434			
nah61522	PVY.	EAD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	434	
nah61523	GLY.	DAD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	435	
nah95293	PHY.	QND	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	436	
nah97723	EHY	ETA	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	437	
nah17079	PVH.	QVD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	438	
nah10062	ELY.	EVD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	439	
nah27152	G.	FAE	VEY	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	440
nah99311	PFY.	DVD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	441	
nah12025	P.	HYGL	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	442	
nah20531	GMFG	SHD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	443	
nah64636	G.	FGEV	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	444	
nah94432	G.	VENH	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	445	
nah64427	P.	YQAM	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	446	
nah10310	P.	LY.	EAS	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	447
nah10319	P.	FY.	EVD	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	448
nah40761	P.	FHRV	QNA	VSVSPVQ	QGS.	..	ALAIQ	HYFLFLKPSK	HKPDQ	IKILH	F	L	S	K	KS	K	IENEANHK.	KYVAK	449	
TAX1 V.																		450		
TAX2 ICHSKL.																		451		
nah61522	VHVS	V.S.																452		
nah61523	V.L.I.																	453		
nah95293																		454		
nah97723																		455		
nah17079	L.K.I.																	456		
nah10062																		457		
nah27152																		458		
nah99311																		459		
nah12025																		460		
nah20531	H.																	461		
nah64636	VHSNYA	IR	PAL.															462		
nah94432	AVDS	HNQ	TIQ	SASK														463		
nah64427																		464		
nah10310	V.L.V.																	465		
nah10319	VVA.																	466		
nah40761																		467		

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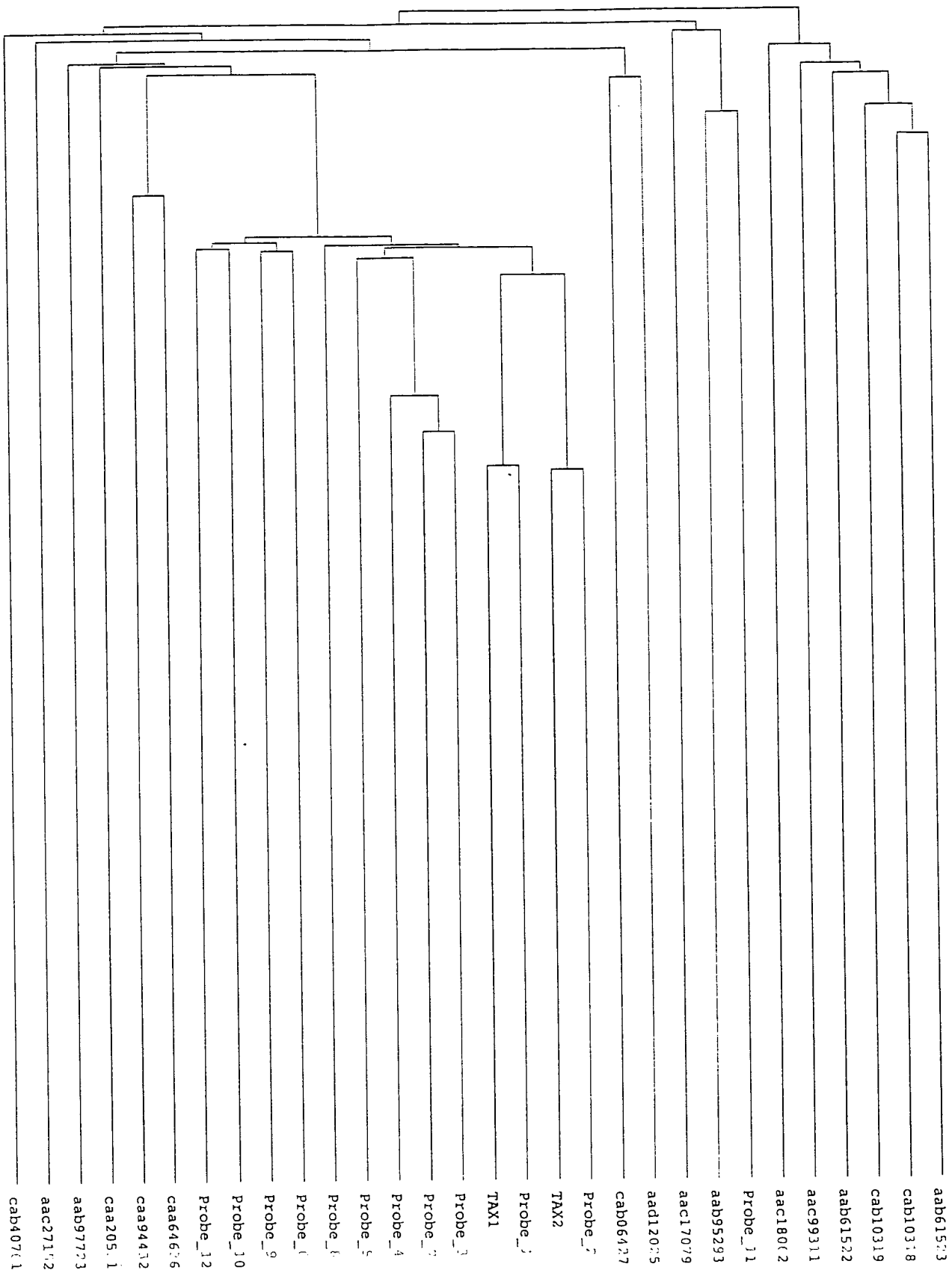


Figure 7

Figure 8

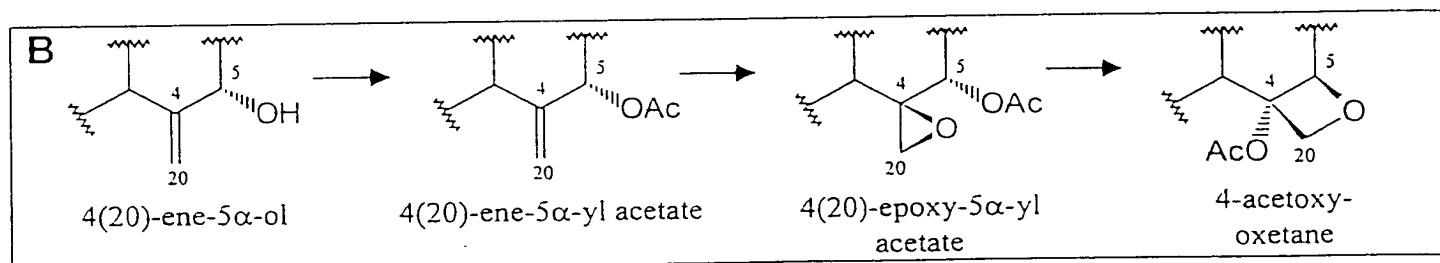
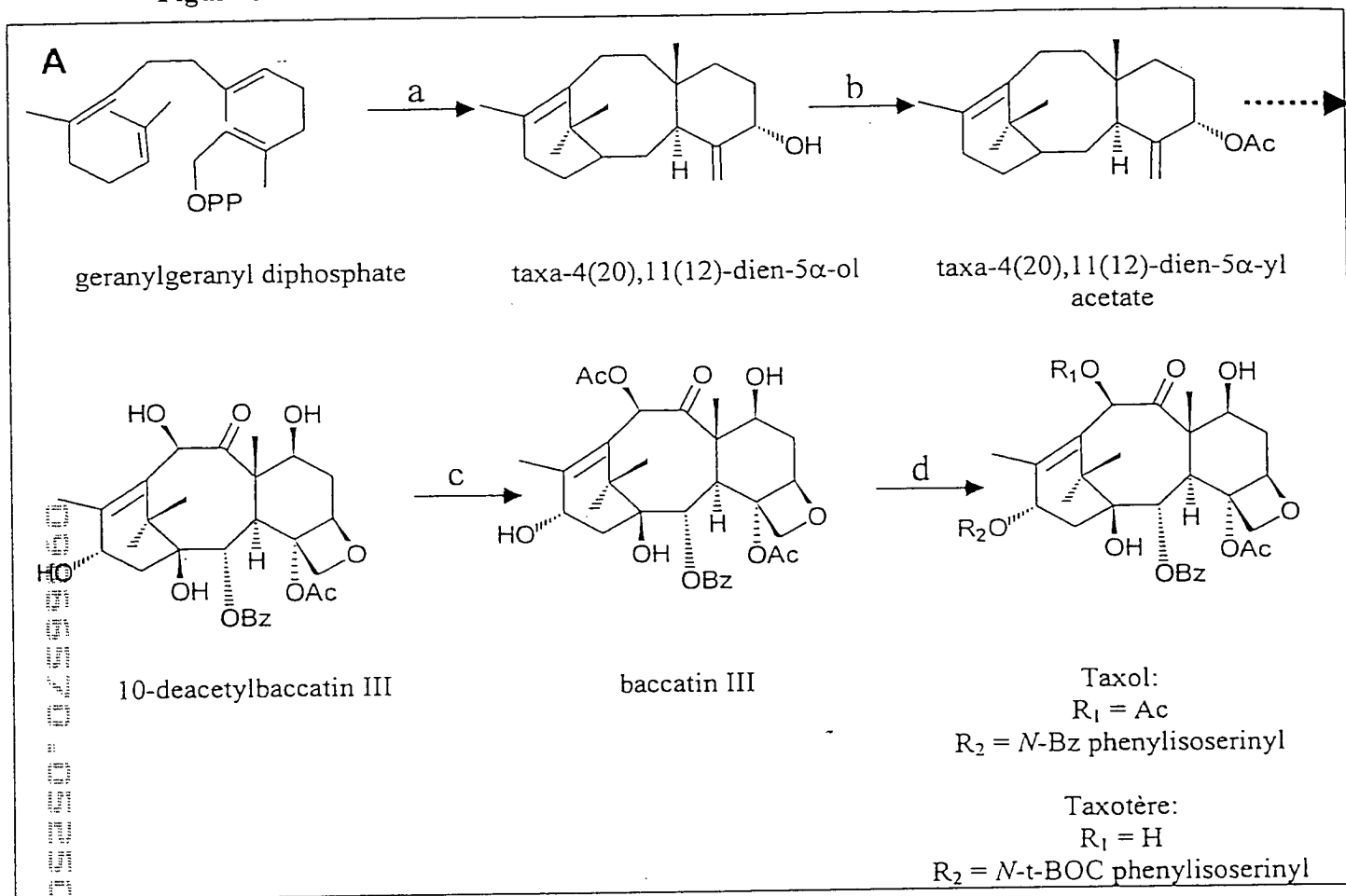


Figure 9

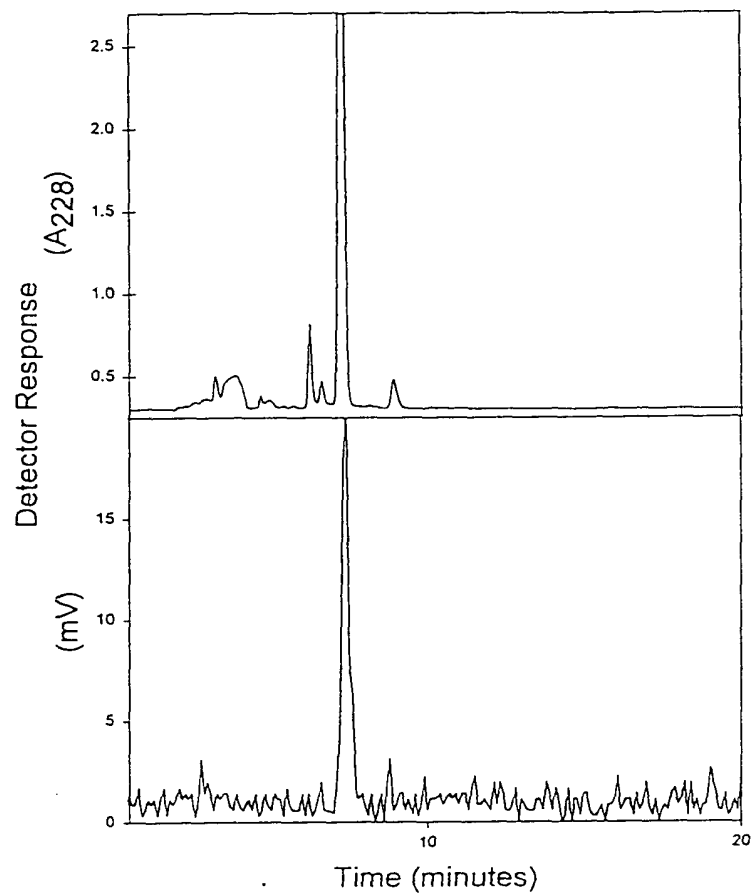


Figure 10

